

Mikos-106 **AMENDMENT AFTER ALLOWANCE** 07650006aa
Amendment dated 12/27/2005 Reply to Notice of Allowance mailed 09/29/2005

The following is a complete listing of all claims in the application, with an indication of the status of each:

Listing of claims:

1 1-13. (canceled)

1 14. (previously presented) Method to identify illumination-induced artifacts
2 in visible light photography of ballistic items including the steps:

3 a. Produce visible and IR image sequences of the same ballistic item;
4 b. extract features from each image in each sequence;
5 c. tag as a candidate illumination-induced artifact each feature in a
6 visible image which does not have a corresponding IR feature; and
7 d. tag dark visible artifacts as possible shadows and light artifacts as
8 possible glint.

1 15. (original) Method of claim 14 in which spectral filters are used to tag
2 certain artifacts as possible debris including oil, gunpowder, fingerprints.

1 16. (original) Method for distinguishing lands and grooves in visible light
2 photography of ballistic items including the steps:

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- 3 a. produce visible and IR image sequence of the same ballistic item
- 4 b. extract features from each image in each sequence
- 5 c. readjust the look-up table of gray scale allocation for the visible
- 6 image such that the resulting image most closely matches that of the IR image
- 7 d. Display the resulting visible image which will have more
- 8 consistent appearance of lands vs. grooves.

1 17. (previously presented) Method to differentiate manufacturing marks and
2 weapons-related tool marks on shell casings including the steps:

- 3 a. adjust the focus on the IR camera such that the manufacturing
- 4 marks are in focus;
- 5 b. adjust the temperature of the ballistic item such that the
- 6 manufacturing marks are most distinct from the surrounding area; and
- 7 c. threshold the resulting image to create a template of the
- 8 manufacturing marks to be used for matching or for eliminating the marks
- 9 from that image prior to further matching.

1 18-24. (canceled)